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NOTICE OF ALLOWANCE AND FEE(S) DUE

30827

7590

03/29/2004

MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006 EXAMINER

AKKAPEDDI, PRASAD R

PAPER NUMBER

ART UNIT

DATE MAILED: 03/29/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,839	04/10/2001	Jeong Ki Park	8733.424.00	7529

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/29/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

indicated unless corrected maintenance fee notificatio	below or directed otherwise	in Block I, by (a	specifying a	new co	orrespondence address;	; and/or (b) indicating a sepa	rate "FEE ADDRESS" for	
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1900 K STREET,					I hereby certify that th	rtificate of Mailing or Trans his Fee(s) Transmittal is being	mission deposited with the United	
WASHINGTON,					States Postal Service	with sufficient postage for fir	st class mail in an envelope	
WASHINGTON,	DC 20000				I hereby certify that this Fee(s) Transmittal is being deposited with the Uni States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsin transmitted to the USPTO, on the date indicated below.			
							(Depositor's name)	
						1909	(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE	<u> </u>	FIRST NAMED	INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/828,839	04/10/2001	l	Jeong Ki			8733.424.00	7529	
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TITLE OF INVENTION: L	IQUID CRYSTAL DISPLA	Y						
APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE	PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330)		\$300	\$1630	06/29/2004	
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AKKAPEDD	OI, PRASAD R	2871			349-040000			
1. Change of correspondence CFR 1.363).	ce address or indication of "F	ee Address" (37			the patent front page,			
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Address form PTO/SB/1	lence address (or Change of (22) attached.	Correspondence	firm (havin	ig as a				
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PTO/SB/47; Rev 03-02 Number is required.	or more recent) attached. Us	e of a Customer	will be print		ents. If no name is listed, no name 3			
3. ASSIGNEE NAME AND	O RESIDENCE DATA TO E	E PRINTED ON T	HE PATENT	(print o	r type)			
PLEASE NOTE: Unless	an assignee is identified be	low, no assignee d	ata will appear	on the	patent, Inclusion of a	ssignee data is only appropria I a substitute for filing an ass	ate when an assignment has	
(A) NAME OF ASSIGN							ignment.	
(A) NAME OF ASSIGN	CEE	д)) KESIDENCE	c: (CII	Y and STATE OR CO	UNIKI)		
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4a. The following fee(s) are	enclosed:	46	. Payment of F					
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☐ Publication Fee					dit card. Form PTO-2038 is attached.			
☐ Advance Order - # of	Copies		Deposit Accor	tor is he unt Nur	ereby authorized by cl mber	harge the required fee(s), or (enclose an extra c	credit any overpayment, to opy of this form).	
Director for Patents is reque	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to re	e-apply	any previously paid is	ssue fee to the application ide	ntified above.	
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(Authorized Signature)		(Date)						
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NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.			nyone urty in	•				
interest as shown by the re	ecords of the United States P	atent and Trademar	k Office.					
obtain or retain a benefit	ation is required by 37 CFR by the public which is to f ty is governed by 35 U.S.C. ttes to complete, including g mm to the USPTO. Time wi	1.311. The informile (and by the US	nation is requir PTO to proces	red to				
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09/828,839	04/10/2001	Jeong Ki Park	8733.424.00	7529
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MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW		AKKAPEDDI, PRASAD R		
WASHINGTON	•		ART UNIT	PAPER NUMBER
			2871	
			DATE MAILED: 03/29/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 399 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 399 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
	Application No.	Applicant(s)			
Nation of Allowability	09/828,839	PARK ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Prasad R Akkapeddi	2871			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>01/05/2004</u> .					
2. The allowed claim(s) is/are <u>1-5</u> .					
3. \boxtimes The drawings filed on <u>10 April 2001</u> are accepted by the Ex	xaminer.				
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposition of the depositi	on's Patent Drawing Review (PTO-6 s Amendment / Comment or in the O 84(c)) should be written on the drawing the header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL n	office action of the back) of the back) of the submitted. Note the			
attached Examiner's comment regarding REQUIREMENT I Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	5. ☐ Notice of Informal P 6. ⊠ Interview Summary Paper No./Mail Dat	atent Application (PTO-152) (PTO-413), e <u>03/08/2004</u> .			
Paper No./Mail Date 12/09/2003 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<u></u>	nt of Reasons for Allowance			

Art Unit: 2871

EXAMINER'S AMENDMENT

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The title has been changed to: "Liquid Crystal Display with Electrostatic Protection Circuits".

In the Claims

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Rebecca Goldman Rudich on 03/08/2004.

The application has been amended as follows:

(a) Cancel claims 6-30.

Application/Control Number: 09/828,839

Art Unit: 2871

DETAILED ACTION

Response to Amendment

3. Applicant's arguments, see amendment, filed 01/05/2004, with respect to claims 1-5 have been fully considered and are persuasive. The rejection of 10/31/2003 has been withdrawn.

Allowable Subject Matter

- 4. Claims 1-5 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

A search of the prior art did not disclose a liquid crystal display device comprising a combination of structural elements, more specifically:

(a) A common electrode intersecting the signal lines, thereby forming first and second signal-line portions and wherein the first and second electrostatic protecting circuits are substantially aligned with each other on opposite side of the common line.

In addition to the previously cited prior art, the following prior art also does not teach or disclose the recited limitations of the instant claims; for example

- (a) Van Berkel (U.S.Patent No. 5,371,351) discloses that the electrostatic protection circuits (3,4) are connected to only one side of the common line (6) and the signal line (5)
- (b) Hebiguchi (U.S.Patent No. 5,497,146) discloses that the electrostatic protection circuits (28) are outside the signal lines (18) and the data lines (16)

Application/Control Number: 09/828,839

Art Unit: 2871

(c) Kim (U.S.Patent No. 6,072,550) discloses the electrostatic protection circuits (R) are only on one side of the signal lines (12) and data lines (20) and (d) Wu (U.S.Patent No. 6,175,394) discloses that the electrostatic

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

protection circuits (50) are outside the signal (118) and data lines (130).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prasad R Akkapeddi whose telephone number is 571-272-2285. The examiner can normally be reached on 7:00AM to 5:30PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/828,839

Art Unit: 2871

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Prasad R Akkapeddi, Ph.D Examiner Art Unit 2871

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SUIT MANUAL MANAGEMER